

**WEST**

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09/046840

Search results  
for Page #18

Your wildcard search against 2000 terms has yielded the results below

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starting with: CELL\$(CELLOSKIN).P28-P88,P90-P91,P23-P27,P20-P22,P1-P18,P19-P19.

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Terms	Documents
AAV near5 retrovir\$ near5 vector\$ and packaging near cell\$	30

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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	AAV near5 retrovir\$ near5 vector\$ and packaging near cell\$	30	<u>L7</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	AAV near5 retrovir\$ near5 vector\$ near10 packaging	0	<u>L6</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	AAV near5 retrovir\$ near5 vector\$ adenovir\$ near5 vector\$ near10 retrovir\$	81	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and packaging	1731	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and packaging	1	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and packaging near cell\$	0	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5650309 [pn]	3	<u>L1</u>

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Generate Collection

Search Results - Record(s) 1 through 30 of 30 returned.

☐ 1. Document ID: US 20010031462 A1

L7: Entry 1 of 30

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010031462

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010031462 A1

TITLE: Novel compositions and methods of screening for B cell activity modulators

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glynne, Richard	Palo Alto	CA	US	
Goodnow, Chris	Ainslie, ACT	CA	AU	
Mack, Davis	Menlo Park		US	

US-CL-CURRENT: 435/4; 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMIC	Draw Desc	Image
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☐ 2. Document ID: US 20010016192 A1

L7: Entry 2 of 30

File: PGPB

Aug 23, 2001

PGPUB-DOCUMENT-NUMBER: 20010016192  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010016192 A1

TITLE: RECOMBINANT ADENOVIRAL VECTOR AND METHOD OF USE

PUBLICATION-DATE: August 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
GREGORY, RICHARD J.	CARLSBAD	CA	US	
WILLS, KEN N.	ENCINITAS	CA	US	
MANEVAL, DANIEL C.	SAN DIEGO	CA	US	

US-CL-CURRENT: 424/93.2; 424/93.6, 435/320.1, 435/455, 435/456,  
435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw Desc	Image
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☐ 3. Document ID: US 20010006950 A1

L7: Entry 3 of 30

File: PGPB

Jul 5, 2001

PGPUB-DOCUMENT-NUMBER: 20010006950  
PGPUB-FILING-TYPE: new-utility  
DOCUMENT-IDENTIFIER: US 20010006950 A1

TITLE: GENETIC VACCINE VECTOR ENGINEERING

PUBLICATION-DATE: July 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
PUNNONEN, JUHA	PALO ALTO	CA	US	
STEMMER, WILLEM P.C.	LOS GATOS	CA	US	
WHALEN, ROBERT G.	PARIS	CA	FR	
HOWARD, RUSSELL	LOS ALTOS HILLS		US	

US-CL-CURRENT: 514/44; 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw Desc	Image
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☐ 4. Document ID: US 20010006629 A1

L7: Entry 4 of 30

File: PGPB

Jul 5, 2001

PGPUB-DOCUMENT-NUMBER: 20010006629  
PGPUB-FILING-TYPE: new-utility  
DOCUMENT-IDENTIFIER: US 20010006629 A1

TITLE: RECOMBINANT ADENOVIRAL VECTOR AND METHODS OF USE

PUBLICATION-DATE: July 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
GREGORY, RICHARD J.	CARLSBAD	CA	US	
WILLS, KEN N.	ENCINITAS	CA	US	
MANEVAL, DANIEL C.	SAN DIEGO	CA	US	

US-CL-CURRENT: 424/93.1; 424/93.2, 424/93.6, 435/320.1, 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FWMC	Draw Desc	Image
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☐ 5. Document ID: US 6312957 B1

L7: Entry 5 of 30 File: USPT Nov 6, 2001

US-PAT-NO: 6312957

DOCUMENT-IDENTIFIER: US 6312957 B1

TITLE: Genetic modification of primate hemopoietic repopulating stem cells

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Einerhand; Markus Peter Wilhelmus	Amsterdam			NLX
Valerio; Domenico	Leiden			NLX

US-CL-CURRENT: 435/456; 435/440

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FWMC	Draw Desc	Image
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☐ 6. Document ID: US 6312683 B1

L7: Entry 6 of 30 File: USPT Nov 6, 2001

US-PAT-NO: 6312683

DOCUMENT-IDENTIFIER: US 6312683 B1

TITLE: Equine infectious anemia virus vectors

DATE-ISSUED: November 6, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kingsman; Alan John	Oxon			GBX
Carroll; Miles William	Oxon			GBX
Rohll; Jonathan	Berkshire			GBX
Mitrophanous; Kyriacos	Oxford			GBX
Kim; Narry	Seoul			KRX

US-CL-CURRENT: 424/93.2; 424/93.1, 424/93.21, 424/93.6,  
435/320.1, 435/325, 435/455, 435/69.1, 514/44, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FIG	Draw Desc	Image
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☐ 7. Document ID: US 6306650 B1

L7: Entry 7 of 30

File: USPT

Oct 23, 2001

US-PAT-NO: 6306650

DOCUMENT-IDENTIFIER: US 6306650 B1

TITLE: Nucleic acid molecule encoding a .beta.-erythroid  
kruppel-like factor that binds to a .delta.-globin promoter

DATE-ISSUED: October 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Townes; Tim M.	Birmingham	AL		
Donze; David	Silver Spring	MD		

US-CL-CURRENT: 435/325; 435/243, 435/320.1, 435/410, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FIG	Draw Desc	Image
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☐ 8. Document ID: US 6300485 B1

L7: Entry 8 of 30

File: USPT

Oct 9, 2001

US-PAT-NO: 6300485

DOCUMENT-IDENTIFIER: US 6300485 B1

TITLE: Myosin IXa and cyclic nucleotide gated channel-15  
(CNGC-15) polynucleotides, polypeptides, compositions, methods,  
and uses thereof

DATE-ISSUED: October 9, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adams; Arwen E.	Oakland	CA		
Chiu; Choi Ying	Castro Valley	CA		
Duhl; David	Oakland	CA		
Gorman; Susan W.	Santa Monica	CA		
Leng; Song	Castro Valley	CA		
Sheffield; Val	Iowa City	IA		
Welch; Juliet	Kensington	CA		

US-CL-CURRENT: 536/23.1; 536/23.4, 536/24.1, 536/24.31

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 6210939 B1

L7: Entry 9 of 30

File: USPT

Apr 3, 2001

US-PAT-NO: 6210939

DOCUMENT-IDENTIFIER: US 6210939 B1

TITLE: Recombinant adenoviral vector and methods of use

DATE-ISSUED: April 3, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gregory; Richard J.	Carlsbad	CA		
Wills; Ken N.	Encinitas	CA		
Maneval; Daniel C.	San Diego	CA		

US-CL-CURRENT: 435/456; 435/252.3, 435/320.1, 435/363, 435/366,  
435/370, 435/371

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 6207455 B1

L7: Entry 10 of 30

File: USPT

Mar 27, 2001

US-PAT-NO: 6207455

DOCUMENT-IDENTIFIER: US 6207455 B1

TITLE: Lentiviral vectors

DATE-ISSUED: March 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chang; Lung-Ji	Gainesville	FL	32606-6939	

US-CL-CURRENT: 435/457; 435/320.1, 435/325, 435/363, 435/366,  
435/368, 435/369, 435/370, 435/371, 435/372, 435/455, 435/456

Full	Title	Citation	Front	Review	Classification	Date	Reference
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EMC	Draw Desc	Image
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☐ 11. Document ID: US 6197754 B1

L7: Entry 11 of 30

File: USPT

Mar 6, 2001

US-PAT-NO: 6197754

DOCUMENT-IDENTIFIER: US 6197754 B1

TITLE: Suppression of tumor growth by a mini-E1A gene

DATE-ISSUED: March 6, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hung; Mien-Chie	Houston	TX		
Chen; Hua	Houston	TX		
Yu; Di-hua	Houston	TX		

US-CL-CURRENT: 514/44; 424/450, 424/93.2, 424/93.6

Full	Title	Citation	Front	Review	Classification	Date	Reference
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EMC	Draw Desc	Image
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☐ 12. Document ID: US 6187757 B1

L7: Entry 12 of 30

File: USPT

Feb 13, 2001



US-PAT-NO: 6187757

DOCUMENT-IDENTIFIER: US 6187757 B1

TITLE: Regulation of biological events using novel compounds

DATE-ISSUED: February 13, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clackson; Timothy P.	Cambridge	MA		
Gilman; Michael Z.	Newton	MA		
Holt; Dennis A.	Royersford	PA		
Keenan; Terence P.	Cambridge	MA		
Rozamus; Leonard	Bedford	MA		
Yang; Wu	Plainsboro	NJ		

US-CL-CURRENT: 514/31; 435/325, 435/355, 435/372, 435/372.3,  
435/375

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 13. Document ID: US 6171855 B1

L7: Entry 13 of 30

File: USPT

Jan 9, 2001

US-PAT-NO: 6171855

DOCUMENT-IDENTIFIER: US 6171855 B1

TITLE: Vectors

DATE-ISSUED: January 9, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Askari; Frederick K.	Ann Arbor	MI		

US-CL-CURRENT: 435/320.1; 435/325, 435/455, 435/70.1, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 14. Document ID: US 6140484 A

L7: Entry 14 of 30

File: USPT

Oct 31, 2000

US-PAT-NO: 6140484

DOCUMENT-IDENTIFIER: US 6140484 A

TITLE: Bax .omega. protein and methods

DATE-ISSUED: October 31, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Bitler; Catherine	Menlo Park	CA			
Mastroni					
Bowersox; Stephen Scott	Menlo Park	CA			
Crea; Roberto	San Mateo	CA			
Demo; Susan Dunham	San Francisco	CA			
Horne; William A.	San Diego	CA			
Zhou; Mei	Palo Alto	CA			

US-CL-CURRENT: 536/23.1; 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FIGS	Draw Desc	Image
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☐ 15. Document ID: US 6117680 A

L7: Entry 15 of 30

File: USPT

Sep 12, 2000

US-PAT-NO: 6117680

DOCUMENT-IDENTIFIER: US 6117680 A

TITLE: Compositions and methods for regulation of transcription

DATE-ISSUED: September 12, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Natesan; Sridaran	Chestnut Hill	MA			
Gilman; Michael Z.	Newton	MA			

US-CL-CURRENT: 435/455; 435/235.1, 435/320.1, 435/325, 435/456,  
536/23.4

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FIGS	Draw Desc	Image
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☐ 16. Document ID: US 6110702 A

L7: Entry 16 of 30

File: USPT

Aug 29, 2000

US-PAT-NO: 6110702

DOCUMENT-IDENTIFIER: US 6110702 A

TITLE: PSA positive regulating (PSAR) sequences and uses thereof

DATE-ISSUED: August 29, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pang; Shen	Van Nuys	CA		
Belldegrun; Arie S.	Los Angeles	CA		

US-CL-CURRENT: 435/69.1; 435/320.1, 435/455, 435/466, 435/70.1, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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HWAC	Draw Desc	Image
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☐ 17. Document ID: US 6110666 A

L7: Entry 17 of 30

File: USPT

Aug 29, 2000

US-PAT-NO: 6110666

DOCUMENT-IDENTIFIER: US 6110666 A

TITLE: Locus control subregions conferring integration-site independent transgene expression abstract of the disclosure

DATE-ISSUED: August 29, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grosveld; Franklin Gerardus	Rotterdam			NLX
Ellis; James	Toronto			CAX
Kioussis; Dimitris	London			GBX

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference
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HWAC	Draw Desc	Image
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☐ 18. Document ID: US 6037177 A

L7: Entry 18 of 30

File: USPT

Mar 14, 2000

US-PAT-NO: 6037177

DOCUMENT-IDENTIFIER: US 6037177 A

TITLE: Method for increasing the efficiency of recombinant AAV production

DATE-ISSUED: March 14, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Snyder; Richard	Oakland	CA		

US-CL-CURRENT: 435/455; 435/320.1, 435/354, 435/357, 435/365,  
435/366, 435/369

Full	Title	Citation	Front	Review	Classification	Date	Reference
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HMIC	Draw Desc	Image
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☐ 19. Document ID: US 5972899 A

L7: Entry 19 of 30

File: USPT

Oct 26, 1999

US-PAT-NO: 5972899

DOCUMENT-IDENTIFIER: US 5972899 A

TITLE: Apoptosis induced by Shigella IpaB

DATE-ISSUED: October 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zychlinsky; Arturo	New York	NY		
Chen; Yajing	Elmhurst	NY		

US-CL-CURRENT: 514/44; 424/93.2, 435/320.1, 435/455

Full	Title	Citation	Front	Review	Classification	Date	Reference
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HMIC	Draw Desc	Image
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☐ 20. Document ID: US 5962320 A

L7: Entry 20 of 30

File: USPT

Oct 5, 1999

US-PAT-NO: 5962320

DOCUMENT-IDENTIFIER: US 5962320 A

TITLE: Engineered antigen presenting cells and methods for their use

DATE-ISSUED: October 5, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robinson; William S.	Burlingame	CA		

US-CL-CURRENT: 435/366; 424/93.21, 435/325

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FUNC	Draw Desc	Image
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☐ 21. Document ID: US 5958768 A

L7: Entry 21 of 30

File: USPT

Sep 28, 1999

US-PAT-NO: 5958768

DOCUMENT-IDENTIFIER: US 5958768 A

TITLE: Chimeric antiviral agents comprising Rev binding nucleic acids and trans-acting ribozymes, and molecules encoding them

DATE-ISSUED: September 28, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kraus; Gunter	Miami	FL		
Wong-Staal; Flossie	San Diego	CA		
Yu; Mang	San Diego	CA		
Yamada; Osamu	Kobe			JPX

US-CL-CURRENT: 435/372.3; 435/320.1, 435/325, 435/366, 435/455, 536/24.5

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FUNC	Draw Desc	Image
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☐ 22. Document ID: US 5948640 A

L7: Entry 22 of 30

File: USPT

Sep 7, 1999

US-PAT-NO: 5948640

DOCUMENT-IDENTIFIER: US 5948640 A

TITLE: Mammalian additional sex combs (mammalian Asx) acts as a tumor suppressor

DATE-ISSUED: September 7, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Randazzo; Filippo M.	Emeryville	CA		

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/455, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FIG/IC	Draw Desc	Image
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☐ 23. Document ID: US 5932210 A

L7: Entry 23 of 30

File: USPT

Aug 3, 1999

US-PAT-NO: 5932210

DOCUMENT-IDENTIFIER: US 5932210 A

TITLE: Recombinant adenoviral vector and methods of use

DATE-ISSUED: August 3, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gregory; Richard J.	Carlsbad	CA		
Wills; Ken N.	Encinitas	CA		
Maneval; Daniel C.	San Diego	CA		

US-CL-CURRENT: 424/93.2; 424/93.6, 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FIG/IC	Draw Desc	Image
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☐ 24. Document ID: US 5914266 A

L7: Entry 24 of 30

File: USPT

Jun 22, 1999

US-PAT-NO: 5914266

DOCUMENT-IDENTIFIER: US 5914266 A

TITLE: Mammalian sex comb on midleg (mammalian SCM) acts as a tumor suppressor

DATE-ISSUED: June 22, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Randazzo; Filippo	Emeryville	CA		

US-CL-CURRENT: 435/320.1; 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FIG	Draw Desc	Image
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☐ 25. Document ID: US 5874556 A

L7: Entry 25 of 30

File: USPT

Feb 23, 1999

US-PAT-NO: 5874556

DOCUMENT-IDENTIFIER: US 5874556 A

TITLE: Hybrid genes for use in the production of T.sub.H  
-independent cytotoxic T cells

DATE-ISSUED: February 23, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lupton; Stephen D.	Seattle	WA		
Allen; James M.	Seattle	WA		
Feldhaus; Andrew L.	Lynwood	WA		

US-CL-CURRENT: 536/23.1; 424/93.21, 424/93.71, 435/252.3,  
435/320.1, 435/363, 435/366, 435/372, 435/372.3, 435/69.1,  
435/69.5, 435/69.52, 435/69.7, 536/23.4, 536/23.52

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FIG	Draw Desc	Image
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☐ 26. Document ID: US 5830755 A

L7: Entry 26 of 30

File: USPT

Nov 3, 1998

US-PAT-NO: 5830755

DOCUMENT-IDENTIFIER: US 5830755 A

TITLE: T-cell receptors and their use in therapeutic and  
diagnostic methods

DATE-ISSUED: November 3, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nishimura; Michael	Rockville	MD		
Rosenberg; Steven A.	Potomac	MD		

US-CL-CURRENT: 435/325; 424/93.2, 435/320.1, 435/6, 435/69.1,  
435/7.23, 530/387.7, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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MMAC	Draw Desc	Image
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☐ 27. Document ID: US 5780447 A

L7: Entry 27 of 30

File: USPT

Jul 14, 1998

US-PAT-NO: 5780447

DOCUMENT-IDENTIFIER: US 5780447 A

TITLE: Recombinant adeno-associated viral vectors

DATE-ISSUED: July 14, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nienhuis; Arthur W.	Memphis	TN		

US-CL-CURRENT: 514/44; 424/93.2, 424/93.21, 435/320.1, 435/325,  
435/375, 435/456, 435/457

Full	Title	Citation	Front	Review	Classification	Date	Reference
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MMAC	Draw Desc	Image
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☐ 28. Document ID: US 5770690 A

L7: Entry 28 of 30

File: USPT

Jun 23, 1998



US-PAT-NO: 5770690

DOCUMENT-IDENTIFIER: US 5770690 A

TITLE: Bax omega protein and methods

DATE-ISSUED: June 23, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Bitler; Catherine	Menlo Park	CA			
Mastroni					
Bowersox; Stephen Scott	Menlo Park	CA			
Crea; Roberto	San Mateo	CA			
Demo; Susan Dunham	San Francisco	CA			
Horne; William A.	San Diego	CA			
Zhou; Mei	Palo Alto	CA			

US-CL-CURRENT: 530/324; 530/329, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference
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Full	Draw Desc	Image
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☐ 29. Document ID: US 5747292 A

L7: Entry 29 of 30

File: USPT

May 5, 1998

US-PAT-NO: 5747292

DOCUMENT-IDENTIFIER: US 5747292 A

TITLE: Chimeric cytokine receptors in lymphocytes

DATE-ISSUED: May 5, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Greenberg; Philip D.	Mercer Island	WA			
Nelson; Brad H.	Seattle	WA			

US-CL-CURRENT: 435/69.7; 435/252.3, 435/320.1, 530/350,  
536/23.4

Full	Title	Citation	Front	Review	Classification	Date	Reference
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Full	Draw Desc	Image
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☐ 30. Document ID: US 5738852 A

L7: Entry 30 of 30

File: USPT

Apr 14, 1998

US-PAT-NO: 5738852

DOCUMENT-IDENTIFIER: US 5738852 A

TITLE: Methods of enhancing antigen-specific T cell responses

DATE-ISSUED: April 14, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robinson; William S.	Palo Alto	CA		
Chu; Keting	Palo Alto	CA		

US-CL-CURRENT: 424/199.1; 424/278.1, 424/93.2, 435/320.1,  
514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference
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HTML	Draw Desc	Image
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Generate Collection

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Terms	Documents
AAV near5 retrovir\$ near5 vector\$ and packaging near cell\$	30

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Documents, starting with Document:

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File: USPT

Jul 22, 1997

DOCUMENT-IDENTIFIER: US 5650309 A

TITLE: Viral vectors

**DEPR:**

The term "biologically active nucleic acid sequence" refers to a nucleic acid which has the property of encoding or possessing a property which directs or permits an activity in a host cell. For instance, the nucleic acid optionally encodes proteins or catalytic nucleic acids which act upon the nucleic acid or the host cell upon transcription and/or translation and/or has sequences necessary for chromosomal integration into the host cell's genome, nucleic acid origins of replication, and sequences which permit packaging of the nucleic acid into a viral capsid.

**DEPR:**

The vectors are useful for introducing anti-viral genes into cells, and for spreading the anti-viral genes to other cells within a host upon infection by a virus or a class of viruses. The vectors have a genome containing a cellular transduction portion and an anti-viral portion. The cellular transduction portion contains sequences for integrating the vector into a host chromosome, and optionally contains additional sequences, such as those necessary for packaging the vector into a virus particle. In preferred embodiments, the cellular transduction portion of the virus does not replicate itself efficiently, requiring co-infection of the cell by a helper virus, or expression by the cell of viral regulators or components for productive infection. Any wild-type or modified viral genome which can incorporate the anti-viral portion can be used, AAV vectors are particularly preferred because they are able to encapsidate reasonably large amounts of DNA; they can be harvested and used in high concentrations for infection; they have no endogenous promoter activity, and they have no known mode of pathogenesis.

**DEPR:**

A replication defective rescuable genome of this invention can contain multiple defective genes. For example, Looney and Wong-Staal describe multiple gene mutants of HIV (PCT/US93/12088). Genes rendered inactive are capable of trans-complementation in order to render the construct rescuable. Genes which are not necessary for packaging may also be partially or completely deleted.

DEPR:

Functions of HIV replication not supplied by trans-complementation which are necessary for replication of the replication-defective portion of the vector are present in the replication-defective rescuable portion of the vector. This includes, e.g., the TAR sequence, the sequences necessary for HIV packaging, the RRE sequence if the instability elements of the p17 gene of gag is included, and sequences encoding the polypurine tract.

DEPR:

HIV sequences that contain these functions include a portion of the 5' long terminal repeat (LTR) and sequences downstream of the 5' LTR responsible for efficient packaging, i.e., through the major splice donor site ("MSD"), and the polypurine tract upstream of the 3' LTR through the U3R section of the 3' LTR. FIGS. 1 and 2 show the HIV genome and the location of relevant sequences.

DEPR:

The sequences necessary for packaging are located in the U5 portion of the 5' LTR and downstream of it into part of p17, as well as the U3R portion of the 3' LTR.

DEPR:

If anti-viral activity in any cell fails, the chimeric vector is designed to include a secondary protective function. Although the HIV portion of the vector is replication defective, it is rescuable by active HIV virus. Factors produced by the infective HIV supplement the replication functions missing from the vector. Consequently, the transduced cell transcribes the replication-defective HIV portion, interfering with the packaging of wild type HIV, and/or subsequently disseminating the anti-HIV genes contained within the replication-defective HIV portion of the vector to other target cells.